

JMO Special Issue Call for Papers

The role of new ICT-based systems in modern management

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Advances in information and telecommunication technologies (ICT) enable organizations to be agile, resilient, and fluid (Panda & Rath, 2018). These organizations seek to create new digital competencies to sustain competitive advantages in evolving new markets or managing complex organizational issues (Ayoko & Callan, 2009). Intellectual assets have now replaced natural resources as the foundation for competitive advantage, and thus managing is crucial for the organization's success. ICT solutions make smart managing possible, drastically reducing costs and increasing information and knowledge transmission speed. With a data warehouse/data lake, people can access large amounts of information that can be analyzed from different perspectives. This can enhance decision-making quality (Kim & Trimi, 2007; Zhang, YUAN, & BAI, 2008).

ICT devices are beneficial and useful in many aspects of management (Galbreath, Lucianetti, Tisch, & Thomas, 2020). For example, they can reduce the rate of errors, improve communication, make information more readily accessible, enhance the team mental models, and team efficacy, assist in diagnosis and monitoring, provide decision support, and enhance implementation of guidelines and recommendations (Chua & Ayoko, 2011; Nam, Park, & Heo, 2013). However, business enterprises' effects are characterizing how the technologies are adopted and rapidly evolving (Clegg, 1990; Dean Jr, Yoon, & Susman, 1992; Kraft & Truex, 1994). Also, sophisticated ICT has permitted outsourcing many business functions, such as production, marketing, and service, once considered central to a firm's activities, implementing strategic supply chains.

With the increasing volume of information in the numeric environment, computers are expected to perform more intelligent tasks (Giray & Ünalir). Therefore, information systems (IS) must achieve more and more activities to give decision-makers more time to perform tasks with a high cognitive benefit (Galbreath et al., 2020). During the last 20 years, dramatic advances in ICT have allowed human beings to generate, process, and share increasing amounts of information in new ways. Human society, enterprise assets, information space, and the physical world can be fully connected and integrated with new and challenging technologies such as grid and cloud computing (Coutinho, Cretan, & Jardim-Goncalves, 2013; Li, Zhong, Wang, & Cao, 2013).

Objectives of the Special Issue

To gather contributions presenting state-of-the-art research dealing with all facets of the application of new ICT-based systems in modern management. We expect submissions to present quantitative evaluations on substantial real-world applications of advanced new ICT-based systems and modern management. We especially encourage interdisciplinary research to work at the interface between new ICT-based systems and modern management, such as cybernetics systems and knowledge management, service managing and Internet of things, cloud and marketing management, business process re-engineering and management, knowledge management,

and strategic business management, etc. Special attention will be given to findings and results with practical applications in terms of technological innovation, sustainable development, the Internet of things, data and network management, ICT, and mobile services. Contributions to the special issue are strongly encouraged to contribute towards both theory and practice development. Submissions with a strong connection between theory and practice are particularly welcomed. We thus invite works on the following topics, but are not limited to:

- Success factors for new ICT-based systems deployments
- ICT for knowledge management in the management consulting industry
- Adoption of new ICT-based systems in modern management and leadership
- The impact of ICT-based knowledge management systems on internal venturing and innovation
- Security, trust, and regulatory aspects of ICT in business environments
- New ICT-based systems for business and technology managers
- Exploring the roles of ICT capabilities and knowledge management capabilities
- New ICT-based systems and adoption management model factors
- Proven strategies to enhance the performance of employers using advanced IT applications
- New frameworks for managing ICT-enabled business change
- ICT-based progresses in modern management and leadership, knowledge management, and organization integration
- Evaluating business success practices via new ICT-based systems tools
- Leader identification and employee's behavior prediction using artificial intelligence applications
- Big-data management and cloud computing
- Models for examining the effect of knowledge sharing and new ICT-based technologies on the success of the supply chain management systems
- Analyzing distributed and virtual teams
- Organizational practices to support careers via new ICT-based systems tools;
- Consideration of the knowledge management, routines (performativity/ostensive/ artefacts), capacity building, and organizational capability (e.g. absorptive, exploitative/ explorative, dynamic capabilities)
- Examination of employment practices, processes, and implications for organizations using new ICT-based systems tools
- Consideration of cultural influences in using ICT tools in occupational, organizational and cross-national contexts
- Multi-disciplinary and multi-level studies on how to advance the employment of ICT tools from an organizational perspective
- New algorithms, structures, and tools for new ICT-based systems
- New ICT-based systems in modern management and leadership methods in multiple dimensions of cities, cultures and countries
- Determinants and drivers of innovation and novelty in the field of ICT-based business success
- Role of new ICT-based systems in modern management scheduling, development, and controlling
- Challenges of using new ICT-based systems to handle large amounts of potentially sensitive data
- Challenges and opportunities in the application of cloud-based computing in different industries
- Digitalization of modern business in COVID-19 era
- Critical theoretical considerations of new IT-based systems and its rationale cost versus benefit on modern management and leadership
- Review of the use of new IT-based systems, specifically applied for modern management, including evidence of impact on decision-making and policymaking
- Analysis and critical evaluation of variations in applications of new IT-based systems in different contexts, size of organizations, management type, and support required
- Empirical studies comparing different variants of new IT-based systems solutions or different alternative methods of modern management
- New methods and critical appraisal in new IT-based systems for modern management
- Consideration of prospects in new IT-based systems for modern management

International Coverage and Scope of the Focus

The competitive scenario is evolving fast. Hence, incumbents' strategic position may be put at risk by radical technological innovations (Christensen, 1997; Tripsas & Gavetti, 2000; Utterback, 1994). Innovations, both radical and technological, are progressively requiring that the firm develop new knowledge bases or recombine part of its established knowledge with newly developed knowledge streams (Freeman & Soete, 1997). Managers need

information sets they can easily manage. For this purpose, they normally rely on top-down information processing, creating cognitive knowledge structures that make their information field less complex (Del Giudice & Della Peruta, 2016; Walsh, 1995). However, if new IT-based systems are to achieve their potential, there needs to be a clear understanding of the various issues involved, such as modern management.

We should pay attention to the intuitive nature of the relation of new ICT-based systems in modern management, forming an integrative unit of analysis by contrast to a focus on new ICT-based systems only and leaving modern management to a moderating or mediating factor, and therefore leading to an ontological and paradigmatic shift.

Hence, this special issue will provide a unique venue to attract the most advanced and box-breaking researchers within the social sciences and ICT. Researchers on various divisions and interest groups (e.g., modern management, ICT, cloud computing, business success, careers, sustainable business approaches, gender and diversity in organizations, organization development & change, ICT tools, organizational communication & information systems, decision support system, business intelligence, knowledge management and web collaboration, sustainable business, strategizing activities & practices, technology & innovation) can involve in this issue. So, this special issue provides global perspectives on the role of new ICT-based systems in the modern management of benefit to scholars, educators, students, practitioners, policy-makers, and consultants worldwide.

The Importance of the Special Issue

This special issue aims at providing, from the academic rigor, options, opportunities, and changes that new IT-based systems may involve in management success. ICT offers a solution to the challenges companies face for a long time—rising ICT costs, the constant need for capital investments, and increasing energy consumption. Businesses, educational institutions, governments, and individuals are looking at IT offerings to manage information instead of infrastructure. The aim is to show how these tools beyond cost savings can confer management success in their organizations and establish a new era for the organizations.

Submission Details

Completed papers must comply with the JMO paper guidelines, and they must be submitted through the JMO Manuscript Central system (<https://mc.manuscriptcentral.com/jmo>).

- 30 Oct '21: paper submission deadline
- 30 Dec '21: completion of first-round review
- 30 May '22: completion of second-round review
- 30 Jun '22: final manuscripts due
- 30 Sep '22: tentative publication date

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